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1 [Trusted paths for browsers](#)



Zishuang (Eileen) Ye, Sean Smith, Denise Anthony

 May 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8
Issue 2

Publisher: ACM Press

 Full text available: pdf(265.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Computer security protocols usually terminate in a computer; however, the human-based services which they support usually terminate in a human. The gap between the human and the computer creates potential for security problems. We examine this gap, as it is manifested in secure Web servers. Felten et al. demonstrated the potential, in 1996, for malicious servers to impersonate honest servers. In this paper, we show how malicious servers can still do this---and can also forge the existence of an ...

Keywords: HCISEC, Trust path, Web browser security

2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

 Full text available: pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 [A secure and private system for subscription-based remote services](#)



Pino Persiano, Ivan Visconti

 November 2003 **ACM Transactions on Information and System Security (TISSEC)**,
Volume 6 Issue 4

Publisher: ACM Press

 Full text available: pdf(241.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we study privacy issues regarding the use of the SSL/TLS protocol and X.509 certificates. Our main attention is placed on subscription-based remote services (e.g., subscription to newspapers and databases) where the service manager charges a flat fee for a period of time independent of the actual number of times the service is requested. We start by pointing out that restricting the access to such services by using X.509 certificates and the SSL/TLS protocol, while preserving the in ...

Keywords: Access control, anonymity, cryptographic algorithms and protocols, privacy, world-wide web

4 WME: towards a web for mathematics education



Paul S. Wang, Norbert Kajler, Yi Zhou, Xiao Zou

August 2003 **Proceedings of the 2003 international symposium on Symbolic and algebraic computation**

Publisher: ACM Press

Full text available: [pdf\(133.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Reported is an approach for *Web-based Mathematics Education* (WME). The WME framework is a distributed system that aims to create a *Web for mathematics education*. Components of the WME framework include the *Mathematics Education Markup Language* (MeML) for page markup, regular Web servers to deliver pages, WME Page Processors to enable common Web browsers to receive MeML pages, and a variety of WME services (mathematical and educational) to supply power and interactivity to Me ...

Keywords: MeML, WME, education, markup, mathematics, mathematics education markup protocol, mathematics education service language, web, web-based mathematics education

5 XML: XVM: a bridge between xml data and its behavior



Quanzhong Li, Michelle Y. Kim, Edward So, Steve Wood

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available: [pdf\(377.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML has become one of the core technologies for contemporary business applications, especially web-based applications. To facilitate processing of diverse XML data, we propose an extensible, integrated XML processing architecture, the XML Virtual Machine (XVM), which connects XML data with their behaviors. At the same time, the XVM is also a framework for developing and deploying XML-based applications. Using component-based techniques, the XVM supports arbitrary granularity and provides a high ...

Keywords: XML, XML applications, XML processing, XVM, components, web applications

6 Computing curricula 2001



September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: [pdf\(613.63 KB\)](#) [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Tools and approaches for developing data-intensive Web applications: a survey



Piero Fraternali



September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(524.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

8 Designing Dexter-based hypermedia services for the World Wide Web



Kaj Grønbaek, Niels Olof Bouvin, Lennert Sloth

April 1997 **Proceedings of the eighth ACM conference on Hypertext**

Publisher: ACM Press

Full text available: pdf(1.08 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: ActiveX, Dexter hypertext reference model, HTML, Java, JavaScript, OLE, World Wide Web, link objects, open hypermedia service

9 A Web-based browsing and spatial analysis system for regional natural resource analysis and mapping



Ranga Raju Vatsavai, Thomas E. Burk, B. Tyler Wilson, Shashi Shekhar

November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available: pdf(1.04 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Proper use and monitoring of our land and environmental resources for quality of life and sustainable growth considerations require that timely and accurate data on land cover and land use be regularly available. Remote sensing is an appropriate tool and NOAA's 1-km AVHRR time series imagery has proven to be an invaluable input for regional level natural resource mapping and monitoring. Many previous efforts addressing the use of satellite-derived data for land cover and land use classificati ...

Keywords: Web GIS, client/server, load balancing

10 Session 11: design and development methods I: OpenXUP: an alternative approach to developing highly interactive web applications



Jin Yu, Boualem Benatallah, Fabio Casati, Regis Saint-Paul

July 2006 **Proceedings of the 6th international conference on Web engineering ICWE '06**

Publisher: ACM Press

Full text available: pdf(412.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

There is an increasing demand in making web user interfaces richer and more interactive. Currently, there are two approaches aiming at improving web user interfaces. First, downloaded code in form of Java Applet or ActiveX can be executed in browsers. And more recently, AJAX (Asynchronous JavaScript + XML) leverages browsers' JavaScript

engine to render user interfaces without reloading pages. Both approaches have some weaknesses. In this paper, we present an alternative approach to creating high ...

Keywords: framework, protocol, soap, thin client, toolkit, user interface, web services, xml

11 Web technologies and applications (WTA): Using XML and related standards to support Location Based Services



Anastasios Ioannidis, Manos Spanoudakis, Panos Sianas, Ioannis Priggouris, Stathes Hadjiefthymiades, Lazaros Merakos

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(270.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Location Based Services can be considered as the most rapidly expanding field of the mobile communications sector. The proliferation of the mobile/wireless Internet, the constantly increasing use of handheld, mobile devices and positioning technologies and the emergence of mobile computing, prepared the grounds for the introduction of this new type of services with impressively large application domain and use range. The combination of position fixing mechanisms with location-dependent, georgrap ...

Keywords: Web Services, XML, location based Services

12 Business-to-business interactions: issues and enabling technologies



B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 12 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(558.34 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

13 Adapting the web interface: an adaptive web browser



K. Henriksen, J. Indulska

January 2001 **Australian Computer Science Communications , Proceedings of the 2nd Australasian conference on User interface AUIC '01**, Volume 23 Issue 5

Publisher: IEEE Computer Society , IEEE Computer Society Press

Full text available: pdf(1.01 MB) Additional Information: [full citation](#), [abstract](#), [references](#)
[Publisher Site](#)

The growing number of mobile computing devices with diverse characteristics creates a requirement for seamless (device independent) access to computing resources of distributed systems. One of the most common applications in distributed systems is the Web browser, which is not only used to access resources on the Internet but also as an interface to many Information Systems applications. In this paper, we address types of adaptation that can be applied to a Web browser in response to diverse con ...

14 Privacy in browser-based attribute exchange



Birgit Pfitzmann, Michael Waidner

November 2002 **Proceedings of the 2002 ACM workshop on Privacy in the Electronic Society**

Publisher: ACM Press

Full text available: pdf (168.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Browser-based attribute-exchange protocols enable users of normal web browsers to conveniently send attributes, such as authentication or demographic data, to web sites. Such protocols might become very common and almost mandatory in general consumer scenarios over the next few years. We derive the privacy requirements on such protocols from general privacy principles and study their consequences for the protocol design. We also survey to what extent proposals like Microsoft's Passport, IBM's e- ...

Keywords: BBAE, Liberty, Passport, SAML, Shibboleth, attribute-exchange, e-Community Single Signon, identity management, privacy, roles, security, single signon, traffic data, wallet, web browser

15 Collaborative customer services using synchronous Web browser sharing



Makoto Kobayashi, Masahide Shinozaki, Takashi Sakairi, Maroun Touma, Shahrokh Daijavad, Catherine Wolf

November 1998 **Proceedings of the 1998 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available: pdf (1.19 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: CSCW, Weg-collaboration customer services, collaboration architecture, synchronous Web browser sharing

16 A 3D user interface for visualisation of Web-based data-sets



Iain M. Brown

November 1998 **Proceedings of the 6th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available: pdf (650.71 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: 3D visualisation, Internet, data-mining, user interface, virtual environments

17 Correctness & security: SecuBat: a web vulnerability scanner



Stefan Kals, Engin Kirda, Christopher Kruegel, Nenad Jovanovic

May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

Publisher: ACM Press

Full text available: pdf (335.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As the popularity of the web increases and web applications become tools of everyday use, the role of web security has been gaining importance as well. The last years have shown a significant increase in the number of web-based attacks. For example, there has been extensive press coverage of recent security incidences involving the loss of sensitive

credit card information belonging to millions of customers. Many web application security vulnerabilities result from generic input validation problem ...

Keywords: SQL injection, XSS, automated vulnerability detection, crawling, cross-site scripting, scanner, security

18 Extending Java for high-level Web service construction



Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

Publisher: ACM Press

Full text available: pdf(947.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

19 Experience papers: experiences with open source and legacy systems: Experiences with place lab: an open source toolkit for location-aware computing



Timothy Sohn, William G. Griswold, James Scott, Anthony LaMarca, Yatin Chawathe, Ian Smith, Mike Chen

May 2006 **Proceeding of the 28th international conference on Software engineering ICSE '06**

Publisher: ACM Press

Full text available: pdf(729.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Location-based computing (LBC) is becoming increasingly important in both industry and academia. A key challenge is the pervasive deployment of LBC technologies; to be effective they must run on a wide variety of client platforms, including laptops, PDAs, and mobile phones, so that location data can be acquired anywhere and accessed by any application. Moreover, as a nascent area, LBC is experiencing rapid innovation in sensing technologies, the positioning algorithms themselves, and the applications ...

Keywords: location-based computing, pervasive computing, software architecture, ubiquitous computing

20 Implementation of a WebDAV-based collaborative distance learning environment



Changtao Qu, Thomas Engel, Christoph Meinel

October 2000 **Proceedings of the 28th annual ACM SIGUCCS conference on User services: Building the future**

Publisher: ACM Press

Full text available: pdf(184.04 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Java 2 platform enterprise edition, JavaServer pages, collaborative distance learning, enterprise JavaBeans, virtual university, web-based distributed authoring and versioning

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